

Recovery Plan Action Status

Plan Name: Recovery Plan for the *Calyptanthus thomasi*

Plan Status: Final

Plan Date: 30-Sep-97

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

(851-7297)

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|---|-------------------|----------|--|---------------|----------------------|----------------------|--|--------------------------------|---|--------------------------|
| No common name (<i>Calyptanthus thomasi</i>) | 1 | 1 | Develop a management plan, which provides for the protection of <i>Calyptanthus thomasi</i> in cooperation with the Navy | Obsolete | | | U.S. Fish and Wildlife Service, Endangered Species Division, United States Navy | Management: Other | Internal Administrative | No cost anticipated |
| No common name (<i>Calyptanthus thomasi</i>) | 2 | 10 | Assess seed production and dispersal | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Propagation | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (<i>Calyptanthus thomasi</i>) | 2 | 11 | Evaluate seed viability and germination requirements | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Propagation | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (<i>Calyptanthus thomasi</i>) | 2 | 12 | Evaluate requirements for establishment and growth | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Habitat Requirements | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |

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| No common name (Calyptanthus thomasi) | 2 | 13 | Assess methods of propagation | Not Started | | | Botanical Gardens, U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Propagation | Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (Calyptanthus thomasi) | 2 | 14 | Develop artificial propagation program | Not Started | | | Botanical Gardens, U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Propagation | Internal Field Assistance, Species Expert, Volunteer | |
| No common name (Calyptanthus thomasi) | 2 | 15 | Select sites and assess habitat suitability | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources | Research: Habitat Requirements, Research: Habitat Status | Graduate Student, Internal Field Assistance, Species Expert, Volunteer | Task duration: 2-4 years |
| No common name (Calyptanthus thomasi) | 2 | 16 | Ensure site protection | Unknown | | | U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources, United States Navy, National Park Service, Department of the Interior | Management: Planning, Other: Law Enforcement, Other: Regulations | Internal Administrative, Volunteer | Task duration: 2-4 years |

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| No common name (Calypttranthes thomasiona) | 2 | 17 | Introduction of plants | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , National Park Service, Department of the Interior | Management: Propagation | Internal Field Assistance, Species Expert, Volunteer | Task duration: 2-4 years |
| No common name (Calypttranthes thomasiona) | 2 | 18 | Determine number of individuals and populations to ensure stability and self-perpetuation | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , National Park Service, Department of the Interior | Research: Other Information | Graduate Student, Species Expert | |
| No common name (Calypttranthes thomasiona) | 2 | 19 | determine what additional actions are needed to achieve recovery objectives | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , National Park Service, Department of the Interior | Work type not yet selected | Internal Administrative | |
| No common name (Calypttranthes thomasiona) | 1 | 2 | Develop a management plan, which provides for the protection of Caypttranthes thomasiona, in cooperation with the Park Service | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, United States Navy | Management: Planning | Internal Administrative, Internal Technical Assistance | No cost anticipated |

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| No common name (Calypttranthes thomasiiana) | 2 | 3 | Monitor known populations | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , United States Navy , National Park Service, Department of the Interior | Research: Population Assessment, Research: Population Surveys | Graduate Student, Internal Field Assistance, Species Expert, Volunteer | |
| No common name (Calypttranthes thomasiiana) | 2 | 4 | Enforce existing Commonwealth, Territorial and Federal endangered species regulations | Ongoing Current | FY 1995 - FY 1999 | FY 2011 | U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , United States Navy , National Park Service, Department of the Interior | Other: Administration, Other: Law Enforcement, Other: Regulations | Internal Administrative | DNER performs these actions |
| No common name (Calypttranthes thomasiiana) | 2 | 5 | Educate the public on plant conservation values and regulations | Ongoing Current | FY 1995 - FY 1999 | FY 2011 | U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Island Department of Planning and Natural Resources , United States Navy , National Park Service, Department of the Interior | Other: Information and Education | Internal Administrative | with the exception of ESA protection as well as Commonwealth protection. Also species has been included in education provided by USFWS. |

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| No common name (Calyptanthus thomasi) | 2 | 6 | identify and inventory potential sites | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, Virgin Islands Department of Planning and Natural Resources, United States Navy, National Park Service, Department of the Interior | Research: Habitat Requirements, Research: Habitat Status | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (Calyptanthus thomasi) | 2 | 7 | Characterize sites to determine their suitability as future recovery sites | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Islands Department of Planning and Natural Resources | Research: Habitat Requirements | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (Calyptanthus thomasi) | 2 | 8 | Define habitat requirements | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Islands Department of Planning and Natural Resources | Research: Habitat Requirements | Graduate Student, Internal Field Assistance, Species Expert | Task duration: 2-4 years |
| No common name (Calyptanthus thomasi) | 2 | 9 | Assess periodicity of flowering | Not Started | | | U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Virgin Islands Department of Planning and Natural Resources | Research: Propagation | Graduate Student, Internal Field Assistance, Species Expert | 6K/yr includes 321, 322, 323, and 324. Task duration: 2-4 years |